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DAMPING DEVICE OF THE PRINTING PRESS Author (Y. Sugiyama)

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English Title : Damping device of the printing press

Specification

[Title of the invention]

DAMPING DEVICE OF THE PRINTING PRESS

[Scope of the patent claims]

The Damping device of the printing press is characterized as being equipped with the water source roller structured to be driven by a specialized motor with a speed control device, and a water transfer roller structured to be driven by the speed control device with a specialized motor.

[Detailed explanation of the invention]

[Utilized field in industry]

The present invention relates to improving the water feeding device of the printing press.

[Prior arts]

Traditionally, regarding this type of water feeding device, one was well known in which one side of water source roller and water transfer roller were rotated by a motor and other side was driven to rotate. (Refer to Japan Patent Disclosure Sho59-212268 Gazette).

[Problems the present invention attempts to solve]

Regarding the above described traditional one, the speed ratio between the water source roller and the water transfer roller were determined by the transmission ratio of the motor driven rotation side and the driven rotation side, hence, along the high and low

range of the speed of the plate cylinder, the free and fine speed control of above described each roller was not enabled individually.

The purpose of the present invention is to provide the damping device of the printing press in which water source roller and water transfer roller are driven by separate motors, thus improving the quality of printing.

[Means to solve the problems]

In order to attain the above described purpose, the damping device of the printing press of the present invention is designed such that water source roller is rotated by the specialized motor with a speed control device, and water transfer roller is rotated by the specialized motor with a control device.

[Embodied example]

The embodied example shown in the figure is designed such that the damping device (a) constituted by a water tank 1, a water source roller 2, a water transfer roller 3, a damping roller 4 and an ink apparatus (b) constituted by an ink application roller 5, a foreign matter removing roller for ink application 6 and an oscillation roller 7 are equipped as the separation type around plate cylinder 8,

A water source roller 2, a water transfer roller 3 and a foreign matter removing roller for ink application 6 are controlled and driven individually by JV motor 10, 11, 12 and a JV motor inverter

utilizing control devices of the same JV motor 10', 11', 12' respectively,

The damping roller 4 is driven to rotate (free rotation) by the adhesion pressure with plate cylinder 8.

[Actions/operations]

According to the present invention, as described above, the speed of water source roller 2 and water transfer roller 3 can be controlled freely and well respectively.

[Effects of the present invention]

Regarding the present invention is characterized as being equipped with the water source roller structured to be driven by a specialized motor with a speed control device, and a water transfer roller structured to be driven by the speed control device with a specialized motor, thereby, fine speed control is done optionally in the positive direction or negative direction for each of water source roller and water transfer roller, thereby, regardless of the speed change of the same plate cylinder along the high and low wide range of the high degree of the plate cylinder, the water of fixed water film is fed to the above described plate cylinder via the water application roller continuously, thus improving the quality of printing greatly, and having a superior effect to completely attain the desired purpose.

[Simple explanation of the drawings]

The figure is a summary drawing showing the embodied example of the

damping device of the printing press of the present invention.

[Explanation of the symbols]

1... a water tank, 2... Water source roller, 3... water tranfer roller, 4.. Damping roller, (a) damping device, 5... An ink application roller, 6... A foreign matter removing roller for ink application, 7... An oscillation roller, 7... An oscillation roller, (b) an ink apparatus, 8... Plate cylinder, 10, 11, 12... JV motor, 10', 11', 12'... control device

